THE UNIVERSITY OF NORTH CAROLINA
AT CHAPEL HILL

SUNDAY
DECEMBER SEVENTEENTH

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ALMA MATER

The words of "Hark the Sound," UNC–Chapel Hill's alma mater, were written in 1897 by William Starr Myers, a graduating senior. The Glee Club director asked Myers to put words to the tune "Amici," and the song was first performed on June 2, 1897, as part of the Glee Club's Commencement performance in Gerrard Hall.

Soon the song was almost forgotten. When a University quartet tried a few years later to remember the words, they could recollect only the first verse and the chorus of Myers' original version. Two members of the quartet, Charles S. Mangum and Charles T. Woollen, added two verses to the one they remembered. Mangum later became a professor in the School of Medicine, and Woollen worked as the University's business manager and comptroller.

HARK THE SOUND

Hark, the sound of Tar Heel voices
Ringing clear and true,
Singing Carolina's praises,
Shouting N.C.U.!

Hail to the brightest star of all!
Clear its radiance shine!
Carolina, priceless gem,
Receive all praises thine.

FOR YOUR INFORMATION

The Commencement ceremony will be captioned on the video screens.*

Every effort has been made to ensure the accuracy of this program's content. Any omissions or errors are unintentional. The graduates' names listed in this Commencement program were submitted prior to administering final examinations. Therefore, the inclusion of degree candidates' names in this program does not represent certification that candidates have satisfactorily completed degree requirements.

Unless special arrangements have been made by departments, diplomas for all December degrees will be printed after graduation and mailed to graduates. For further information, visit the Registrar's website at registrar.unc.edu/academic-services/diplomas.

* Captioning by Caption Perfect.

STAY CONNECTED WITH CAROLINA

Use **#UNCgrad** to share your Commencement tweets and photos.

@UNC

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THE COMMENCEMENT PROGRAM

The University Band	Jeffrey W. Fuchs, *Director*
Academic Procession	The Faculty Marshal Jay Aikat, *Senior Associate Dean, School of Data Science and Society; Research Professor, Computer Science* Class of 2024 Officers The Deans The Official Party
Presiding	Kevin M. Guskiewicz, *Chancellor, The University of North Carolina at Chapel Hill*
National Anthem	Taylor K. Loyd, *Double Major Music and Psychology*
Welcome and Recognition of the Platform Party	Kevin M. Guskiewicz, *Chancellor*
For the Board of Governors of The University of North Carolina System	Reginald R. Holley, *Member*
For the Board of Trustees of The University of North Carolina at Chapel Hill	Jennifer Halsey Evans, *Member*
For the Faculty	Kathryn (Beth) E. Moracco, *Chair*
For Carolina Alumni	Veronica M. Flaspoehler, *President*
Commencement Speaker Introduction	Lauryn T. Lovett, *President of the Class of 2024*
Commencement Address	Samantha Meltzer-Brody, *Assad Meymandi Distinguished Professor* *Chair, Department of Psychiatry; Director, Center for Women's Mood Disorders* *The University of North Carolina at Chapel Hill*
Recognition of Doctoral Candidates	Beth Mayer-Davis, *Dean, The Graduate School*
Conferring of Degrees	J. Christopher Clemens, *Provost* The Deans Kevin M. Guskiewicz, *Chancellor*
Ceremonial Recognitions of the Graduates	Phillip Vo, *Vice President of the Class of 2024*
Chancellor's Charge to the Graduates	Kevin M. Guskiewicz, *Chancellor*
HARK THE SOUND	

CHANCELLOR

KEVIN M. GUSKIEWICZ

Kevin M. Guskiewicz is the twelfth chancellor at UNC–Chapel Hill and the Kenan Distinguished Professor of Exercise and Sport Science.

A member of the Carolina faculty since 1995, he is a world-renowned expert on concussions and brain injuries. His research has influenced NCAA and NFL concussion guidelines, and he is co-director of the Matthew Gfeller Sport-Related Traumatic Brain Injury Research Center. Before becoming chancellor, he was dean of the College of Arts & Sciences.

In 2011, Guskiewicz received the prestigious MacArthur Fellowship, commonly known as a "genius grant." Time magazine also named him a Game Changer in 2013, one of 18 "innovators and problem-solvers that are inspiring change in America."

Guskiewicz earned a B.S. in athletic training from West Chester University, an M.S. in exercise physiology/athletic training from the University of Pittsburgh, and a Ph.D. in sports medicine from the University of Virginia.

STAY CONNECTED

Follow Kevin Guskiewicz on social media.

@KevinGuskiewicz

@KevinGuskiewicz

COMMENCEMENT SPEAKER

SAMANTHA MELTZER-BRODY

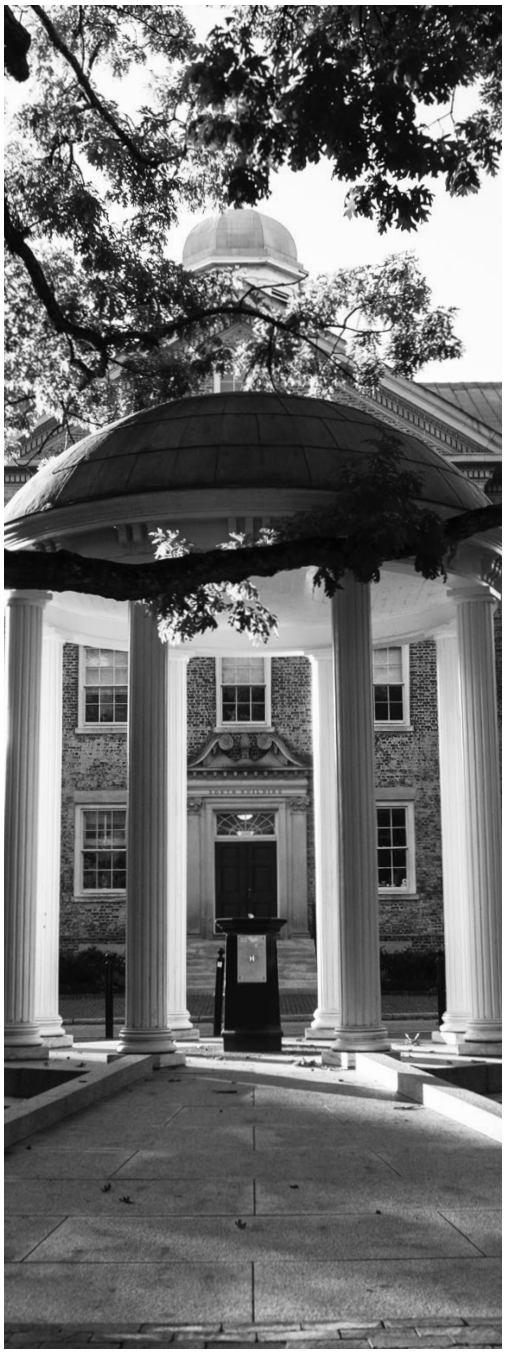
Assad Meymandi Distinguished Professor and Chair of the Department of Psychiatry at the University of North Carolina at Chapel Hill

Samantha Meltzer-Brody, M.D., M.P.H. is the Assad Meymandi Distinguished Professor and Chair of the Department of Psychiatry at the University of North Carolina at Chapel Hill. She also directs the UNC Center for Women's Mood Disorders. As chair, Meltzer-Brody directs one of the largest public university departments of psychiatry in the United States and collaborates with UNC Health and the state of North Carolina on broad-based initiatives to improve mental health.

She is a passionate advocate for innovation and transformation of mental health care. Meltzer-Brody is an internationally recognized physician-scientist in perinatal depression. Her research investigates the epidemiologic and biological predictors of perinatal depression and innovative treatment approaches (pharmacologic and psychotherapeutic), which have taken her across the globe including to sub-Saharan Africa. She had led the MOMS GENES study — the largest global genetic study of postpartum depression (PPD) using app-based tools. She also served as the academic PI for the novel psychopharmacologic clinical trials developing the first FDA approved medication for postpartum depression (brexanolone) and also served an investigator for the newly approved oral drug (zuranolone) for PPD.

Meltzer-Brody was awarded the 2023 NIH Clinical Center Distinguished Clinical Research Scholar and Educator in Residence, named to the 2022 Forbes list of 16 Healthcare Innovators You Should Know, and received the 2020 UNC O. Max Gardner award, a UNC system award (17 universities) for the highest faculty honor. Meltzer-Brody was ranked in 2021 by Expertscape as the number one expert in the world for postpartum depression.

MESSAGE FROM THE CHANCELLOR



Welcome to your winter 2023 graduation ceremony! You — undergraduate, graduate, and professional students — have made it through the challenges to stand here together on this important day. During your time in Chapel Hill, you've demonstrated the core values behind every Carolina degree: hard work, innovation, and curiosity, along with a commitment to service as demonstrated by our world-class faculty and dedicated staff. We are honored to celebrate your success and eager to see what you accomplish next.

To the family and friends, peers, and mentors who have supported our graduates throughout their Carolina journey — thank you. By valuing their education and acting as a source of strength, you have enabled our graduates to rigorously pursue their academics with excellence. Your encouragement and assistance supported our students in their efforts to reach this milestone. You are a valued part of the Carolina community.

Graduates, I hope you never forget what you've learned at Carolina. As a proudly and passionately public university, we are at the forefront of facing the grand challenges of our time, both inside and outside the classroom. As chancellor, I'm proud of how you have responded to the problems of our world and look forward to how you will leverage a Carolina education in the future.

Remember, once a Tar Heel, always a Tar Heel. You'll always have the connections and memories you've made here. You've gained friends and a support system that will be there for you throughout the years. Today, you join a far-reaching family of Carolina alumni. Generations of graduates stand ready to support you as you rise to the call of becoming another leader serving our many communities near and far.

Congratulations, and as always, Go Heels!

Kevin M. Guskiewicz

KEVIN M. GUSKIEWICZ
Chancellor

OFFICERS OF THE CLASS OF 2024

Lauryn T. Lovett, *Senior Class President*
Phil Vo, *Senior Class Vice President*
Olivia R. Askew, *Chief Marshal*

MARSHALS OF THE CLASS OF 2024

Elizabeth G. Andrews
Kyle L. Beaman
Pauline G. Bemah
Evan M. Berkowitch
Nicholas S. Brannan
Mackenna F. Brown
Carlyn Alexandra Calayan
Arianna L. Darden
Adrian G. Donatelli
Kate E. Fread
Jasamine A. Gutierrez
Merytt A. Haney
Sarah F. Haurey
Cheyenne L. High
Cierra J. Hill
Jessica S. Holloway
Caroline A. Hoover
Emily H. Huang
Makayla A. Key
Oyinlola A. Lawal
Amanda Lopez-Hernandez
Andrew H. Mattson
Taylor D. Nguyen
Cyria R. Olingou
Addison G. Parrish
Alyssa L. Pittman
Meredith M. Pritchard
Elizabeth J. Rotchford
Ann Marie S. Sawires
Erin N. Schlachter
ChaVon J. Shade
Blair J. Smith
Andrew L. Spratley
Charisma J. Sumpter
Jada C. Young

2023–2024 GRADUATE AND PROFESSIONAL STUDENT GOVERNMENT EXECUTIVE BOARD

Lauren Hawkinson, *President*
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BOARD OF TRUSTEES

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Ralph W. Meekins Sr.
Vinay B. Patel

DEGREES OFFERED AT UNC–CHAPEL HILL

The following is a list of all degrees available to students at the University of North Carolina at Chapel Hill.

UNDERGRADUATE DEGREES

Bachelor of Arts with a major in: African, African American, and Diaspora Studies; American Studies; Anthropology; Archaeology; Art History; Asian Studies; Asian and Middle Eastern Studies; Biology; Chemistry; Classics; Communication Studies; Computer Science; Contemporary European Studies; Dramatic Art; Economics; English; English and Comparative Literature; Environmental Studies; Exercise and Sport Science; Geography; Geological Sciences; Germanic and Slavic Languages and Literatures; Global Studies; History; Human and Organizational Leadership Development; Interdisciplinary Studies; Latin American Studies; Linguistics; Management and Society; Mathematics; Medical Anthropology; Music; Peace, War, and Defense; Philosophy; Physics; Political Science; Psychology; Public Policy; Religious Studies; Romance Languages; Sociology; Studio Art; Women's and Gender Studies
Bachelor of Arts in Business Journalism
Bachelor of Arts in Education
Bachelor of Arts in Journalism and Mass Communication
Bachelor of Arts in Media and Journalism
Bachelor of Fine Arts
Bachelor of Music
Bachelor of Science with a major in: Biology; Biomedical and Health Sciences Engineering; Chemistry; Computer Science; Earth and Marine Sciences; Economics; Environmental Sciences; Geological Sciences; Mathematics; Neurodiagnostics and Sleep Science; Neuroscience; Physics; Psychology; Statistics and Analytics
Bachelor of Science in Business Administration
Bachelor of Science in Clinical Laboratory Science
Bachelor of Science in Dental Hygiene
Bachelor of Science in Information Science
Bachelor of Science in Nursing
Bachelor of Science in Public Health with a major in: Biostatistics; Environmental Health Sciences; Health Policy and Management; Nutrition
Bachelor of Science in Radiologic Science

GRADUATE DEGREES

Master of Accounting
Master of Applied Professional Studies
Master of Arts in the discipline of: Africana Studies; American Studies; Anthropology; Art History; Asian and Middle Eastern Studies; Biology; Chemistry; Classics; Communication Studies; Digital Communication; Ecology; Education; Educational Innovation, Technology, and Entrepreneurship; English and Comparative Literature; Exercise and Sport Science; Folklore; Geography; German Studies; Global Studies; History; Linguistics; Mathematics; Media and Communication; Musicology; Philosophy; Political Science; Psychology; Public Policy; Religious Studies; Romance Languages and Literatures; School Psychology; Sociology
Master of Arts in Teaching
Master of Business Administration
Master of Clinical Laboratory Science
Master of City and Regional Planning
Master of Education in the discipline of: Education for Experienced Teachers; School Counseling; School Psychology
Master of Fine Arts in the discipline of: Dramatic Art; Studio Art
Master of Healthcare Administration
Master of Health Sciences
Master of Law
Master of Professional Science in the discipline of: Biomedical and Health Informatics; Digital Curation and Management; Regulatory Science; Toxicology
Master of Public Administration
Master of Public Health in the discipline of: Biostatistics; Environmental Sciences and Engineering; Epidemiology; Health Behavior; Health Policy and Management; Maternal and Child Health; Nutrition; Public Health Leadership
Master of Public Policy
Master of Radiologic Science
Master of School Administration
Master of Science in the discipline of: Applied Data Science; Biochemistry and Biophysics; Bioinformatics and Computational Biology; Biology; Biomedical Engineering; Biostatistics; Cell Biology and Physiology; Chemistry; Clinical Mental Health Counseling; Clinical Rehabilitation Counseling; Clinical Rehabilitation and Mental Health Counseling; Computer Science; Dental Hygiene Education; Earth and Marine Sciences; Ecology; Economics; Endodontics; Environmental Sciences and Engineering; Genetics and Molecular Biology; Geological Sciences; Human Movement Science; Management; Marine Sciences; Materials Science; Mathematics; Medical Science; Microbiology and Immunology; Neuroscience; Nutrition; Occupational Science; Occupational Therapy; Operative Dentistry and Biomaterials; Oral and Craniofacial Biomedicine; Oral and Maxillofacial Pathology; Oral and Maxillofacial Radiology; Orthodontics; Pathology; Pediatric Dentistry; Periodontology; Pharmaceutical Sciences; Pharmacology; Physics; Prosthodontics; Speech and Hearing Sciences; Statistics, Analytics and Data Science; Statistics and Operations Research; Toxicology
Master of Science in Clinical Research
Master of Science in Disaster Management
Master of Science in Environmental Engineering
Master of Science in Information Science
Master of Science in Library Science
Master of Science in Nursing
Master of Science in Public Health in the discipline of: Biostatistics; Environmental Sciences and Engineering; Epidemiology; Health Behavior; Health Policy and Management; Maternal and Child Health
Master of Social Work
Doctor of Nursing Practice
Doctor of Philosophy in the discipline of: Africana Studies; American Studies; Anthropology; Art History; Biochemistry and Biophysics; Bioinformatics and Computational Biology; Biology; Biological and Biomedical Science; Biomedical Engineering; Biostatistics;

Business Administration; Cell Biology and Physiology; Chemistry; City and Regional Planning; Classics; Communication Studies; Computer Science; Earth and Marine Sciences; Ecology; Economics; Education; English and Comparative Literature; Environmental Sciences and Engineering; Epidemiology; Genetics and Molecular Biology; Geography; German Studies; Health Behavior; Health Informatics; Health Policy and Management; History; Human Movement Science; Information and Library Science; Materials Science; Maternal and Child Health; Mathematics; Media and Communication; Microbiology and Immunology; Musicology; Neuroscience; Nursing; Nutrition; Occupational Science; Oral and Craniofacial Biomedicine; Pathology; Pharmaceutical Sciences; Pharmacology; Philosophy; Physics; Political Science; Psychology; Public Policy; Religious Studies; Romance Languages and Literatures; School Psychology; Social Work; Sociology; Speech and Hearing Sciences; Statistics and Operations Research; Toxicology

Doctor of Public Health in the discipline of: Biostatistics; Health Behavior; Maternal and Child Health; Nutrition; Public Health Executive Leadership

PROFESSIONAL DEGREES

Doctor of Audiology
Doctor of Dental Surgery
Doctor of Education in the discipline of: Curriculum and Instruction; Educational Leadership
Doctor of Medicine
Doctor of Pharmacy
Doctor of Physical Therapy
Juris Doctor

THE BELL TOWER

The Morehead–Patterson Memorial Bell Tower was given to the University in 1931 by John Motley Morehead III and Rufus Lenoir Patterson. Its 14-bell carillon rings both manually and electronically to call students to class, provide twilight music and serenade the dispersing crowd after football games.

CANDIDATES FOR GRADUATE DEGREES

DECEMBER 2023

Graduates' names are followed by their area of major study, dissertation or project title, and the name of their doctoral advisor.

THE GRADUATE SCHOOL

Est. 1903
Dean Elizabeth Mayer-Davis

DOCTOR OF PHILOSOPHY

Sebastian Acosta-Calle, *Chemistry,* Leveraging Non-Covalent Interactions for Switchable Catalysis in Organometallic Chemistry. Professor Alexander Miller.

Ishrat Zarin Alam, *Epidemiology,* Risk and Protective Factors of Rapid Opioid Reduction or Discontinuation and Its Association With Self-Harm Outcomes Among High-Dose Long-Term Opioid Therapy Patients in North Carolina. Professor Shabbar Ranapurwala.

Kimberly Anne Alley, *Chemistry,* Asymmetric Synthesis of Salicylaldehyde Equivalents to Generate Molecular Complexity. Professor Jeffrey Johnson.

Ashwaq Alzamel, *Speech and Hearing Sciences,* Digging Beneath the Surface: A Multidimensional Approach to Understanding Sex Differences in Social-Pragmatics in School-Age Children With Autism Spectrum Disorder and Typically Developing Children. Professor Elizabeth Crais.

Pulasthi Shamantha Amarasinghe, *Economics,* Migration and Transfers in Extended Family Networks. Professor David Guilkey.

Sarah Shamim Asad, *Health Policy and Management,* Addressing Multi-Level Determinants of Endometrial Cancer Diagnosis in Black Women. Professor Sarah Birken.

Joëlle Atere-Roberts, *Epidemiology,* Structural Racism Across the Life Course and Cardiometabolic Health Among Black and White Young Adults. Professor Chantel Martin.

Fiona Balsa, *School Psychology,* Reimagining Autism in the School Years: An ICF-CY Core Set for Interdisciplinary Services. Professor Rune Simeonsson.

Matthew M. Bowler, *Pharmaceutical Sciences,* Biocatalytic Diversification of Peptide Libraries Displayed on RNA. Professors Albert Bowers and Nate Hathaway.

Burcu Bozkurt, *Health Policy and Management,* Three Essays Exploring Black-White Racial/Ethnic Disparities in Postpartum Care in the United States. Professor Sarah Birken.

Aki Keean Braceros, *Biochemistry and Biophysics,* Epigenetic Regulation of Gene Expression by Long Non-Coding RNAs. Professor Mauro Calabrese.

Taron Marie Bradshaw, *Chemistry,* Dual Foreign Body Response Mitigation Strategies for Improving the Analytical Performance of Implantable Glucose Biosensors. Professor Mark Schoenfisch.

Jacob Thomas Brooks, *Physics,* Design, Fabrication, and Actuation of a Magnetic Micro-Actuator Platform for Passive Fluid Flow, Active Fluid Flow, and Cell Motility Studies. Professor Richard Superfine.

Benjamin Brown, *Statistics and Operations Research,* Every Bit as Good: Resolution-Based Inference, Binary Model Representations, and a Boolean Framework for Explainable Decisions. Professors Kai Zhang and Jan Hannig.

Ana Elisa Cartaya Tellechea, *Pharmacology,* Antioxidant Response Activating Nanoparticles (ARAPas): Treating Arterial Disease in 3D. Professor Edward Moreira Bahnson.

Xiaoyan Chen, *Chemistry,* Biosynthesis of Dithiolopyrrolone Natural Products and Discovery of Antibiotic Combinations. Professor Bo Li.

Qian Cheng, *Statistics and Operations Research,* A Data-Driven Approach to Describe, Predict, and Reduce Crowding and Health Disparities in an Emergency Department. Professors Nilay Argon and Serhan Ziya.

Rachel Elizabeth Cherney, *Genetics and Molecular Biology,* Recruitment of PRC2 by lncRNAs. Professor Joseph Calabrese.

Morgan Clark, *Physics,* Development of a Characterization Facility and Analysis Process for LEGEND-200 HPGe Detectors. Professor John Wilkerson.

Collin Knox Coleman, *Environmental Sciences and Engineering,* Advancing Test Methods for Point-of-Use Disinfection of Water and Wastewater. Professor Jill Stewart.

Matthew Combs, *Pathology,* The Role of GRAF RHOA-GAPs in Maintaining Highly Energetic Tissues via Regulation of Mitochondrial Quality Control. Professor Joan Taylor.

Margaret Louise Daly, *Materials Science,* The Design and Emergent Properties of Supramolecular Peptide-DNA Materials. Professor Ronit Freeman.

Aimee Deconinck, *Biology,* Impact of Mitonuclear Interactions on Hypoxia Tolerance in Populations of Tigriopus Californicus. Professor Christopher Willett.

Ryan Mitchell DeRuiter, *Biomedical Engineering,* Developing Imaging Methods and Processing Techniques for Super-Resolution Ultrasound Microvascular Applications. Professor David Lalush.

John Kiprian DiEugenio, *History,* The Creation of the Maritime Strategy: The U.S. Navy, National Strategy, and the End of the Cold War. Professors Wayne Lee and Joseph Glatthaar.

Carolina Grace Downie, *Epidemiology,* Inflammatory Mediators of Type 2 Diabetes Risk. Professor Christy Avery.

Michelle S. Dromgold-Sermen, *Sociology,* A Hierarchical Pathway to Permanence: Temporary Nonimmigrants' Navigation of the U.S. Immigration System, 2007–2021. Professors Jacqueline Hagan and Charles Kurzman.

Devin Effinger, *Pharmacology,* Sex-Specific Effects of Psychedelic Drug Administration on Stress-Related Brain Region Reactivity and Behavioral Responding. Professor Melissa Herman.

Mohammad Hossein Eybposh, *Biomedical Engineering,* Deep Learning Methods in Computer-Generated Holography. Professor Nicolas Pegard.

Inbar Fried, *Computer Science,* Towards Robot Autonomy in Medical Procedures via Visual Localization and Motion Planning. Professor Ron Alterovitz.

Hannah Friedman, *Health Policy and Management,* Quality of Care and Hospital Bypass Among Rural Heart Failure Patients. Professor G. Mark Homes.

Nathan William Galliher, *Physics,* Enabling the Future of Fast Transient Characterization: Building ArgusSpec and Prototyping the Argus Array. Professor Nicholas Law.

Madison Rose Glass, *Neurobiology,* Cross-Site Reproducibility and Fidelity of Human Cerebral Organoids. Professor Jason Stein.

Jessica Elizabeth Goldblum, *Psychology,* The Toddler Remote Assessment of Virtual Eye Tracking and Language (Travel) Study: An Eye Tracking and Behavioral Assessment of Joint Attention at Home. Professor Cathi Propper.

Amanda Leigh Graboski, *Pharmacology,* Characterization and Inhibition of Gut Microbial Tryptophanase and its Implications in Chronic Kidney Disease. Professor Matthew Redinbo.

Lauren Graybill, *Epidemiology,* The Impact of Youth Friendly Health Services on Pregnancy Risk Among Adolescent Girls and Young Women in Lilongwe, Malawi. Professor Daniel Westreich.

Jennifer Miller Green, *School Psychology,* Service Disparities Among Preschool Students With Autism. Professor Sandra Evarrs.

Zakiya M. Haji-Noor, *Epidemiology,* Classifying Eligibility for Minimally Invasive Hysterectomy in the Carolina Hysterectomy Cohort, 2014–2017. Professor Audrey Pettifor.

Breanne Marie Hatfield, *Chemistry,* Characterizing RNA-Protein Interactions and Defining Proximity-Mediated Function of RNA Regulatory Proteins. Professor Kevin Weeks.

Christopher Randolph Haufe, *Physics,* A Study of Majorana Demonstrator Backgrounds With Bayesian Statistical Modeling. Professor John Wilkerson.

Paloma Hauser, *Biostatistics,* Bayesian Models for High-Dimensional Discrete Multivariate Data. Professors Joseph Ibrahim and Xianming Tan.

Hillary Michaela Heiling, *Biostatistics,* Scalable Statistical Methods for Cell Type Deconvolution and Mixed Models Applied to High Dimensional Genomic Data. Professors Naim Rashid and Joseph Ibrahim.

Dylan Andrew Hendy, *Pharmaceutical Sciences,* Improved Delivery of a Broadly Active Influenza Subunit Vaccine. Professors Kristy Ainslie and Juliane Nguyen.

David Alberto Hervas Aguilar, *Physics,* Characterizing Bulk Signals in an Inverted Coaxial Point-Contact Detector to Inform Rare-Event Searches. Professor John Wilkerson.

April Highlander, *Psychology,* Behavioral Parent Training Outcomes in Families With Low Income: Exploring the Role of the Family Stress Model. Professor Deborah Jones.

Yun-Chung Hsiao, *Environmental Sciences and Engineering,* Exploration on Biotransformation and Metabolic Modulation by the Gut Microbiome. Professor Kun Lu.

Lex Hurley, *Health Behavior,* Assessing Depression and Attributional Styles as Determinants of Engagement in Digital Behavior Change Interventions. Professor Deborah Tate.

Sabrina Elizabeth Iskandar, *Pharmaceutical Sciences,* Expanding the Chemical Diversity of mRNA Display Libraries With Orthogonal Aminoacyl tRNA Synthetases. Professor Albert Bowers.

Melissa Renee Jenkins, *Social Work,* Sex Trafficking Prevention Education for Youth With Intellectual and Developmental Disabilities: Promising Practices. Professor Cynthia Fraga Rizo.

Aldo M. Jordan, *Chemistry,* Electrochemical Characterization of Electrode Devices: Towards Enhanced Stability in Energy Storage and Photoelectrochemical Catalysis Applications. Professor Jillian Dempsey.

Thomas Herbert Keefe, *Statistics and Operations Research,* Unsupervised Machine Learning With Applications to Disease Phenotyping. Professor J. S. Marron.

Daeeun Kim, *Epidemiology,* Biological and Clinical Implications of Obesity Genomics in Ancestrally Diverse Populations. Professor Kari North.

Taebin Kim, *Statistics and Operations Research,* Statistical Inference in Computational Pathology. Professors J. S. Marron and Yao Li.

Jasmine King, *Pharmaceutical Sciences,* Harnessing a Platform Hydrogel Technology and Stem Cell Therapies for Cancer Treatment and Regenerative Medicine. Professor Soumya Benhabbour.

Karina Alexandra Kinghorn, *Cell Biology and Physiology,* Vesicle Trafficking and Secretion Regulate FLT1 Function in VEGF Signaling During Vascular Development. Professor Victoria Bautch.

Wei Yi Kong, *Health Behavior,* Clinical Determinants of Health Care Professionals' Recommendation of Human Papillomavirus Vaccination. Professor Melissa Gilkey.

Elaine Kearney Kowalewski, *Biostatistics,* Methods to Address Control to Test Treatment Switching for Multi-Visit and Time-to-Event Clinical Trials. Professor Gary Koch.

Youngjoong Kwon, *Computer Science,* Modeling Efficient Deep Representations for Human Digitization With Affordable Setup. Professor Henry Fuchs.

Brandon David Le, *Bioinformatics and Computational Biology,* Genetic Effects in Context: Cellular and Molecular Quantitative Trait Loci in Stimulated Human Neural Progenitor Cells. Professor Jason Stein.

Jiaying Li, *Statistics and Operations Research,* Statistical Arbitrage and Algorithmic Trading. Professor Chuanshu Ji.

Junlang Li, *Biomedical Engineering,* Minimally Invasive Delivery of Stem Cells and Exosomes for Heart Repair. Professor Ke Cheng.

Tzu-Chi Lin, *Statistics and Operations Research,* Modeling Dynamic Processes on Complex Networks. Professors Mariana Olvera-Cravioto and Nicolas Fraiman.

Marguerite Little, *Pharmacology,* Determination of Cross-Species Immune Responses From Outer Membrane Vesicle-Based Meningococcal Vaccines to Neisseria Gonorrhoeae. Professors Joseph Duncan and Robert Nicholas.

Allison S. Lowe Reed, *Public Policy,* Competitors and Collaborators: Exploring Inter-University Effects in the Academic Discipline of Biomedical Engineering. Professor Maryann Feldman.

Tianyou Luo, *Biostatistics,* Statistical Learning Methods in Imaging Genomics. Professors Hongtu Zhu and Yun Li.

Natalia Maldonado-Vazquez, *Pharmacology,* Exploring Protein Folding Patterns: Characterization and Functional Insights of Zinc Finger Domain Containing Protein ZC4H2. Professor Daniel Dominguez.

Joseph Marincel, *Physics,* Sign Optimization and Quantum Field Theories: Lessons From QCD-Like Models. Professor Gokce Basar.

Rae Anne M. Martinez, *Epidemiology,* Exploring the Operationalization of Biological Age and Its Relationship to Childhood Adversity and Depression. Professor Allison Aiello.

Laura Elyse McCormick, *Cell Biology and Physiology,* The E3 Ubiquitin Ligase TRIM9 Regulates Actin Dynamics and Synaptic Function. Professor Stephanie Gupton.

Austin Miller, *Chemistry,* Key C–C Disconnections Realized via Site-Selective Amidyl Radical Mediated C–H Functionalization. Professor Erik Alexanian.

Adil Muneer, *Biochemistry and Biophysics,* Non-Canonical Translation Regulatory Function of G9a in Chronic Inflammation Associated Diseases. Professor Xian Chen.

Andrew Roderick Murray, *Geography,* Groundwater Vulnerability in the United States: Identifying Inequitable Contaminants and Water Sources. Professor Diego Riveros-Iregui.

Matthew Niederhuber, *Genetics and Molecular Biology,* Fine-Tuning Enhancer Activity in Development. Professor Daniel McKay.

Carli Opland, *Neurobiology,* Investigating Tau Mediated Toxicity in Alzheimer's Disease and the Protein Complex Responsible for Tau Cleavage. Professor Todd Cohen.

Micah Papanikolas, *Materials Science,* Supramolecular Assembly of Mucins Instructs Health and Disease. Professor Ronit Freeman.

Emily Eidenier Pearce, *Health Behavior,* The Experience and Management of Medical Uncertainty in Telomere Biology Disorders. Professors Melissa Gilkey and Kurt Ribisl.

Victoria Petermann, *Nursing,* Evaluating the Role of Contextual Factors in Access to Care for Endometrial Cancer Patients. Professor Jennifer Leeman.

Jackson Jon Peterson, *Microbiology and Immunology,* The Molecular Basis of HIV-1 Latency Initiation and Maintenance. Professors Edward Browne and David Margolis.

Haley Elizabeth Plaas, *Environmental Sciences and Engineering,* Understanding the Impacts of Harmful Cyanobacterial Blooms on Air Quality. Hans Paerl.

Yiqing Qian, *Health Behavior,* Understanding the Psychological Well-Being of Black American Family Caregivers: A Multi-Method Investigation of Choice, Stressors, Coping, Adverse Psychological Impacts, and Meaning-Making. Professor Edwin Fisher.

Kaitlyn Maffuid Quebbemann, *Pharmaceutical Sciences,* Catch Me If You Can: Detecting Immune-Cancer Cell Interactions for Better Immunotherapy. Professors Michael Jarstfer and Yanguang Cao.

Gouthami G. Rao, *Environmental Sciences and Engineering,* Expanding the Reach of Wastewater Surveillance Through Improved Pathogen Detection and Passive Sampling Methods. Professor Joe Brown.

Anna Leigh Reine, *Physics,* An Improved Background Model and Two-Neutrino Double-Beta Decay Measurement for the Majorana Demonstrator. Professor John Wilkerson.

Alfredo Rojas, *Anthropology,* Cashews and Cooperation: Land Use and Land Cover Change, Household Labor, and Local Perspectives in Northwestern Côte D'Ivoire. Professor Colin West.

Neyen Romano, *Chemistry,* Transition Metal-Based Silylium Transfer Mechanisms for Catalysis. Professor Michel Gagne.

Selena Elaine Romero, *Cell Biology and Physiology,* Uncovering Novel Mechanisms of Neuronal Axon Pruning. Professor Mohanish Deshmukh.

Emma M. Rosen, *Epidemiology,* Phthalates and Replacements: Longitudinal Assessment of Levels, Sources, and Associations With Placental Measures. Professors Stephanie Engel and Kelly Ferguson.

Ryan Sayko, *Chemistry,* Coarse-Grained Molecular Dynamics Simulations of Degradation of Block Copolymers and Scaling Theory of Polymer Solution Characterization. Professor Andrey Dobrynin.

Erin Graham Sley, *Epidemiology,* Modifiable Risk Factors for Orofacial Clefts Among Hispanic and Non-Hispanic Individuals in the United States. Professor Andrew Olshan.

John Sperger, *Biostatistics,* Experimental Designs for Precision Health and Medicine. Professors Michael Kosorok and Eric Laber.

Maria A. Stevens, *Health Policy and Management,* The Influence of Vulnerability on the Treatment and Outcomes for Opioid Use Disorder Among People who Present to the Emergency Department With an Opioid-Related Diagnosis. Professors Kristin Reiter and Valerie Lewis.

Yuan Tian, *Chemistry,* Bulk and Interfacial Properties of Soft Polymer Materials. Professor Andrey Dobrynin.

Thanh Vu, *Computer Science,* Toward Efficient and Robust Computer Vision for Large-Scale Edge Applications. Professor Jan-Michael Frahm.

Ian Andrew Windham, *Cell Biology and Physiology,* Lipid Droplet Targeting and Function of Apolipoprotein E. Professor Sarah Cohen.

Jennifer Wu, *Art History,* The Metapictorial Portrait in Early Modern Britain, 1520–1620. Professor Tatiana String.

Yubo Zhang, *Computer Science,* Computer Vision Aiding Colonoscopy. Professors Stephen Pizer and Jan-Michael Frahm.

Chao Zhao, *Computer Science,* Text Summarization Under Low Supervision. Professor Snigdha Chaturvedi.

DOCTOR OF NURSING PRACTICE

Christine Detwiler, *Nursing Practice,* Delirium Risk Assessment and the Effect on Administration of Four Adjuvant Anesthetics. Professor Ashley Kellish.

Christina Greeson, *Nursing Practice,* Pediatric Feeding Disorder: A Quality Improvement Initiative to Improve Documentation in the Psychosocial Domain. Professor Eric Hodges.

Poonam Rai Gupta, *Nursing Practice,* Implementing a Standardized Diuretic Titration Protocol to Manage Heart Failure Exacerbation in an Ambulatory Setting. Professor Tracy Vernon-Platt.

Madison Morgan, *Nursing Practice,* Piloting Ethics-Focused Debriefing to Address Nurse Manager Moral Distress: A Quality Improvement Project. Professor Ashley Bryant.

DOCTOR OF PUBLIC HEALTH

Anthony Shawn Abrantes, *Biostatistics,* Novel Ways of Analyzing RNA for Genetic Psychiatry. Professors Paola Giusti-Rodriguez and Yun Li.

Joseph L. Barker, *Health Policy and Management,* Effective Public Health Strategies to Optimize HIV Testing Services Among Men Ages Fifteen Years and Older in Kenya. Professor Sandra Greene.

Melanie Gleiman Phelps, *Health Policy and Management,* Expanding the Use of Doulas to Improve Maternal and Birth Outcomes in North Carolina. Professors Christopher Shea and Valerie Lewis.

Joshua Rutsohn, *Biostatistics,* Estimating the Conditional Hazard Function of Joint Latent Class Mixed Models Using Hazard Regression With Applications to Psychology and Neuroscience. Professor Young Truong.

CANDIDATES FOR POSTBACCALAUREATE PROFESSIONAL DEGREES

DECEMBER 2023

THE SCHOOL OF LAW

Est. 1843
Dean Martin H. Brinkley

JURIS DOCTOR

Kizhan Clarke
Michael R. Hall
William Marshall Rhyne

THE UNC ESHELMAN SCHOOL OF PHARMACY

Est. 1897
Dean Angela Kashuba

DOCTOR OF PHARMACY

Nooria S. Sajjad

THE SCHOOL OF MEDICINE

Est. 1879
Dean Wesley Burks

DOCTOR OF MEDICINE

Alexander M. Cruz Walma
Abigail Frazier
Andrew John Herr

THE OLD WELL

At the heart of the campus stands the visual symbol of the University of North Carolina at Chapel Hill. For many years the Old Well served as the sole water supply for Old East and Old West dormitories. In 1897, the well was given its present decorative form at the direction of President Edwin A. Alderman, who described his beautification project as largely derived from the Temple of Love in the Garden of Versailles. In 1954, the well was given added beauty with brick walks, plantings and benches. Legend holds that students can bring good luck with a drink from the Old Well on the first day of classes.

CEREMONY DETAILS

THE CHANCELLOR'S MEDAL

The chancellor's medal, an emblem of the office of chancellor, is worn during the University's ceremonial occasions. The sterling silver disk, which is three inches in diameter and seven ounces Troy weight, was given to the University by John Sanders, professor emeritus and former director of the UNC Institute of Government, and his wife, Ann Beal Sanders. Modeled by sculptor Pete Hinton and bearing the University seal, it was first worn by Chancellor Paul Hardin during the 1994 University Day convocation. The medal was recently updated with a silver chain of office that includes thin rectangles engraved with the names and dates of service of previous UNC chancellors. It also features links made in the shape of the Old Well and the Davie Poplar leaves, both icons of the Carolina campus.

THE BICENTENNIAL STAFF

The faculty marshal carries the bicentennial staff while leading the faculty processional on ceremonial occasions such as Commencement and University Day. The staff, commissioned for the University's 1993 bicentennial celebration by John Sanders, professor emeritus and former director of the UNC Institute of Government, and his wife, Ann Beal Sanders, was modeled by sculptor Pete Hinton. It consists of a sterling silver three-inch-high replica of the Old Well mounted on a turned and tapered oak shaft. The shaft was made from timber salvaged from the 1822 section of Old West residence hall during its 1991–1993 renovation.

UNIVERSITY COLORS

As symbols of unity among Carolina students, alumni and fans, the school colors of light blue and white were first used around 1800 to distinguish between members of the Dialectic and Philanthropic Literary Societies. Throughout the 19th century, students were required to be members of either the Di or the Phi. The Di's color was light blue, and the Phi's was white.

At University commencements, balls and other social events, the student officials, managers and marshals wore the color of their society, blue or white. Because the chief marshal or chief ball manager represented the whole student body, not just his society, he wore both colors.

When the University fielded its first intercollegiate athletic teams in 1888, the question of what colors to wear had already been answered. Light blue and white had come to symbolize membership in the University, not in a single society.

THE UNIVERSITY SEAL

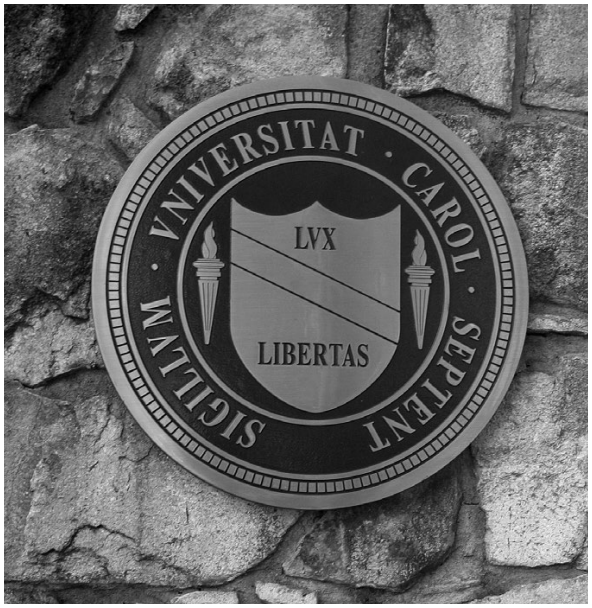
The University seal typically appears on diplomas and graduation materials, grade transcripts and documents that indicate accomplishment in or on behalf of the University.

The first seal of the University of North Carolina, designed in 1790, showed the face of Apollo and his emblem, the rising sun, used to symbolize the dawn of higher education in the state. The words "SIGUL UNIVERSITAT CAROL SEPTENT" (Seal of the University of North Carolina) surrounded the drawing.

A modification in 1895 added lighted torches of learning beside Apollo's profile. Two years later another alteration replaced Apollo's head with a shield on which the words Lux (light) and Libertas (liberty), separated by a white band running from the upper right to the lower left of the shield, appeared.

In the 1940s, some observers mistakenly claimed the white stripe on the shield was a bend sinister, a heraldic code that was demeaning. In truth, the stripe was a bar sinister and merely denoted a second or later son. Still, the direction of the stripe was reversed, removing any question of stigma.

Today's seal is the same as the 1897 version, except the stripe runs from the upper left to the lower right.



CANDIDATES FOR GRADUATE AND PROFESSIONAL GRADUATE DEGREES

DECEMBER 2023

THE GRADUATE SCHOOL

Est. 1903
Dean Elizabeth Mayer-Davis

MASTER OF ARTS

Anthropology
Regina Marie Lowe

Asian and Middle Eastern Studies
Kun Meng

Chemistry
Brayden Carty
Charlotte Ann Ridgway
Samuel Joseph Albert Van Amberg

Classics
Valerie Sydorenko

Digital Communication
Virginia Leigh Annable
Scott Andrew Behm
Katherine Jean Brown
Ellen Gwin Burnette
Phillipe C. Charles
Alison Crisci
Kelly Dillon Davis
Erin Noelle Fabian
Ashley Rossi Fallon
Karen Michele Hoch
Addison Rose Hutchins
Nurviana Mubtadi
Kenna Marie Pell
Meghan Rushing
Megan Lynn Zehnder

English and Comparative Literature
Jenna Suzanne Gordon
Ian Sawyer

Exercise and Sport Science
Madeline Ann Schulz

German Studies
Merlin Ganzevoort
Ameliah Elizabeth Leonhardt
Luca Pixner
Wei Quan

Linguistics
Trey Anthony
Andrew Tate Knudsen
Rebecca C. Winters

Media and Communication
Elizabeth Nicole Anderson
Florencia Maria Loncan
Sarah Anne Padyk

Political Science
Tyler Stevens Anthony
Neil Doughty
Lara Hansen
Clayton Isaac Petty

Psychology
Catherine J. Berman
Grace Hadley Cain
Anne Marie Dankert
Grace Mae Elliott
Flavio Frohlich
Amanda Katharine Haik
Madison Paige McCall
Jose Nicolas Murgueitio Meneses
Sophie G. Paolizzi
Pedro Luis Rodriguez-Echemendia
Min Sung Seo
Honoka Lee Suzuki
Yexinyu Yang
Yining Ye

Religious Studies
John Lain Miller

Sociology
Imad Alatas
Jarvis Benson
Christopher Kendrick Brehm
Jacob Brennan Conley
Kaitlin Hope Joshua
Ian Alexander Wallace
Jordan Young

MASTER OF APPLIED PROFESSIONAL STUDIES

British Brooks
Benjamin Lee Fleming
Quentin Emeric Huerman
Collin Scott Travasos
Vemund Hole Vik

MASTER OF PROFESSIONAL SCIENCE

Biomedical and Health Informatics
Nibras Ar Rakib
Denise R. Barrett
Monika Baskaran
Anchal Bisht
Biren Chaudhary
Sujitha Rao Dasari
Jacqueline Suzanne Dullea
Andrea Gonzalez-Vallejo
Heather Kincaide
Wan-Ting Liao
Shradha Mohanty
Sanah Murtuza
Kaniqua La'Shawn Outlaw
Divya Anilkumar Patel
Carlos M. Perez IV
Rohit Simha Torpunuri
Charita Chowdary Vemulapalli

Digital Curation and Management
Stephanie Alison Johnson
Kylie McDonald
Kathryn Cole Wymer

MASTER OF SCIENCE

Biology
Spencer Ray Roper Edwards

Biomedical Engineering
Sarah Burnash§
Hanjoo Lee

Biostatistics
Shravani Chitineni
Yujia Li
Pei Yu Shih
Jiarui Tang
Andrew Joseph Walther
Joe Xiaotong Yi

Chemistry
Rebecca Lynn Beres

Computer Science
Joseph Goh
Matthew Raymond Gregoire
Mahathir Monjur
Aidan Carter Scott
Meghan Leone Stuart
Zachery Randal Tuggle
Kenya Lucero Vázquez Martínez

Economics
Michaela Faith Hartman
Roberto Fernando Lagos Mondragon
Junsu Pan

Environmental Sciences and Engineering
Adrienne Michelle Lambert
Christina Marie Petagna

Geological Sciences
Sydney Alyse Maguire

Management
Kyung Suk Lee
Rebecca Jane Manning
Elyse Susan Rich

Marine Sciences
Caroline Rae Cooper

Mathematics
Aubrey Leary
Laura Katherine Short

Medical Science
Jessica Margaret Buddenbaum
Madison Long
Noah Benjamin Ziegler Steege

Microbiology and Immuniology
Ean Karl Spielvogel

Occupational Therapy
Kearstyn Leigh Brown
Lacy Ayn Chronister
Khalil Jamaal Curry

Physics
Madyson Gabryelle Barber
David Joseph Stilwell Jr.

Statistics, Analytics and Data Science
Ram Sankar Basak

THE KENAN-FLAGLER BUSINESS SCHOOL

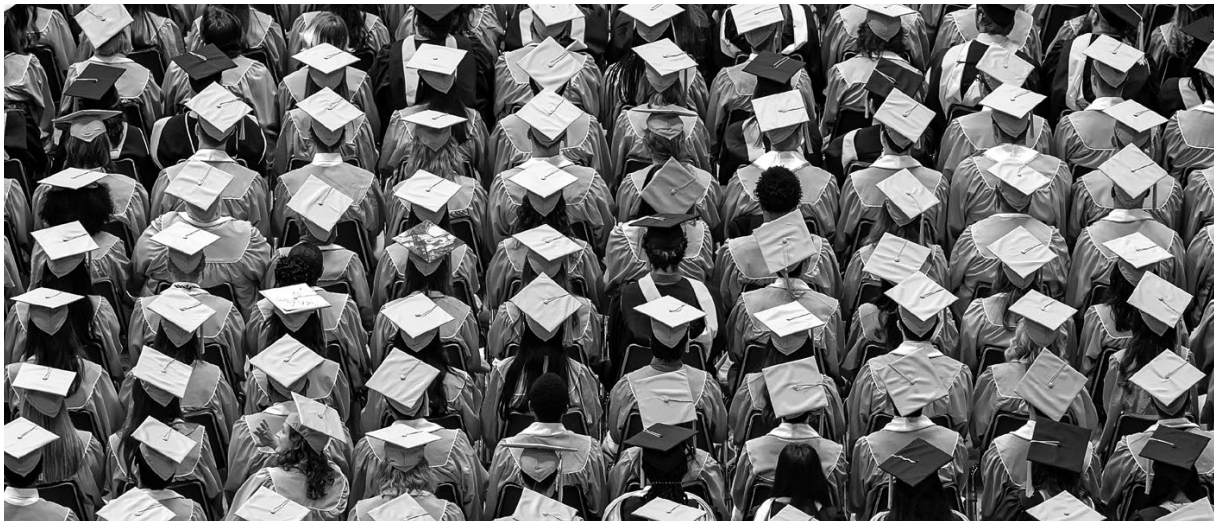
Est. 1919
Dean Mary Margaret Frank

MASTER OF ACCOUNTING

Malarie Alberta Alexis
Noor Ali
Mohammad Raiyan Arman
Zachariah Bacchus
Christin Heather Baker
Ashley Christine Barnes
Noah Greer Barnett
Andrew Stephen Brown
Nickolas John Brown
Maclean Paul Bucy
Lifei Dong
Tyler Cameron Downing
Nicholas Tucker Emken
Daniel Peyton Fogarty
Brenda Lee Ann Fogolin
Christopher Geiger
Alice Sara Goldstein
Shay Anna Greene
Lynda Michelle Hayes
Damon Todd Hiner
Erin Elizabeth Hutchison
Nicholas Inman
Sargis Ivanov
Caitlyn Marie Jacobsen
Waskar Juarez
Lisa Carol Kelley
Devan Kruger
Luis Julio Lucas
Kritaarth Mahankali
Emma Regina Mikolaitis
Gregory Miller
Denny Mohler
Ido Morag
Lyndsay Michelle Orwig
Matthew Norman Osborn
Miller Otstott
Manuel Francisco Perez-Carrillo III
Kaylee Mackenzie Pettus
Morgan Anna-Marie Pitock
Michael John Podbelski
Brandon Reiter
Maria B. Renner
Sarika Danielle Robinson
Heather Primm Salameh
Bryce William Sigmon
Chad Bryan Simons
Celina Saida Smith
Dustin John Smith
Casey Alexandra Vattimo
Charlette Monee Wade
Ann Davis Weber
Christopher Alexander White
Kenneth Williams
Erin Nicole Wingard
Marc Joseph Wyzykowski II
Ronald Zabala

MASTER OF BUSINESS ADMINISTRATION

Ayanna Kayi Adams
William Agudelo
Fawzi Husam Ali
Mohammed Manzar Ali
Mary Robinson Allen
David Keene Aller
Amit Anand
Brian Martin Anderson
Matthew J. Anderson
William Anderson
Alan Arnold
Sasikumar Arumugam
Kyle Robert Ayers
David Harris Baker Jr.
Mark David Balderson
Scott Hamilton Barbee
Jake A. Bargas
Jay Kyle Barker
Aaron Gordon Barnes
Michael Todd Barnes
Yarwon Barto
Rhonda Tadlock Barwick
Casey Lee Betancur Jr.
John Gray Beverley III
Surya Bhatt
Christina Bird
Evan Bleiler
Scott Bowden
Ian Boyd
Sean Boyle
Jessica I. Brantley
Sara Kropp Brewbaker
Stefan Robert Brewer
David Adam Brooks
Robert Joseph Brown
William R. Bryant
Katelyn Laine Buffett
Nathan Andrew Burian
James Daniel Burrow
Andrew Hunt Butler
Briana Buxbaum
Una H. Bye
Brian Cain
Giancarlo Calla
Meagan Elizabeth Capra
Adam Daniel Chandler
Michael Henry Chang
Andrea Janelle Charles
Justin Ciaramitaro
Lauren Hyo-Jin Clapper
Christopher Scott Clary
John Clay
Oliver Miles Clemmons
Jason Cofone
Zachary Michael Cogan
Shannon Rita Connaghan
Carrington Lyerly Connell
Kieran Christopher Connolly
Deana C. Cook
Margaret Patricia Cooper
Salvatore Joseph Costanzo
David Paul Crowley
Bobby Cunningham
Karthik Dabeeru
Sukant Kumar Dash
Salina Dayton
Jonathan Michael Deleon
Vivian Rita Dembski
Hayley Theone Derscheid
Tejas Desai
Steven Tyler Dickmann
Alexandra Dixon-Ernst



Christian Nickodem Don
Antonio Manuel Dos Santos Calisto Pato
Trenton Douglass Douglass
Sean Dummitt
Martin Jerzy Duszynski
Anna Katherine Elia
Mary Elizabeth Mohamed Elkordy
Jordan Elizabeth Elliott
Omosefe Emokpae
James Michael Ensor
Mary Elizabeth Entwistle
David Randolph Fell
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Vanessa Lynn Fernandez
Matthew Patrick Figliotti
Gineen Finch
Forrest Tanner Fox
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Patrick Obrian Johnson
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Justin Blake Joiner
Billy Young Jun
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Christopher Joseph Keffer
Christina Pilar Kerns
Md Adnan Khan
Bethany Lake King
Jeffrey James Kinon
Georgy Igorevich Kinyaevsky
Julian Koeneman
John Andrew Kuconis
Vladislava D. Kukuy
Sumitro Kurniawan
Michael Richard Larrabee
Daniel Hyun Joon Lee
Evan M. Lee
YoungJae Lee
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Gary Patrick David Leicht
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Benjamin N. Lind
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Jamir Livingston
Douglas Wysong Logan
Sarah Loucks
Garrison Michael Lutz
John Conrad Lynch
David Michael Lyons
John Reuss Mackowiak
Goutham Mada
Shiva Chaitanya Madduru
Breanna Jade Madrazo
Meirong Wang Magee
Todd Michael Marquez
Kaitlin Elizabeth Marvin
Christian Mattutat
David Angelo McDougall
Brian McKibben
Ryan Patrick McLoughlin
Joseph Dean Meakem
Theophilus Medeiros
Jessica Milligan Meisinger
Christian Peter Merkel
Joseph Wayne Mills
Roma Wasylyna Mirutenko
Dena S. Moftah
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Matthew Blake Moore
Risa Mori
Patrick Ryan Mouch
Michael G. Mulroe
Nishil Dilip Naik
Tim Henry Nordbrook
Colleen Kelley O'Connor
Wesley Oglesby
Christopher Rajan O'Mara
Allyson Eileen Ortega-Luo
Jacqueline L. Orth
Chad Allan Ott
Matthew Daniel Miller Owings
Kayla Marie Pack
Satya Neha Palakodety
Jason Bradley Palmquist
Anthony John Paquin Jr.
Gardiner Reed Parker
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Karan Sanjay Patel
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Parag Madhav Phadke
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Rahul Raj
Shakti Ramkissoon
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Bryan Hanif Mishad Roberts
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Remy Thomas Wilfrid Saffar
Abdulhakim Safi
Samuel Wells Saleeby
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Bhavna Shankar
Nithya B. Sharma
Vishal Vasant Shinde
Rebecca Leigh Shultz
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Matthew M. Slater
Natisha B. Sloley-Hamilton
Morgan Menzies Smith
Douglas Adam Softy
Srikanta Prasad Sondekoppam Vijayashankar
Ryan James Stalnaker
Daniel Lee Christion Starr
Tiffany Stephens
Michael Vincent Stimpfel
Gabrielle Kathleen Storment
Joseph F. Strahl
Ryan E. Strang
Gregory Sugalski
Zachary Sunderland
Uzayr Taher
Terance Takyi
Ashley Brooke Tedstone
Brandon C. Temple
Stassavaria Thompson
Apryl Achaia Shabahn Tillman
Patrick Christopher Toy
Joshua Tseng
Callie Frances Turlington
Reid Alexey Van Syckle
Nallely Jael Vazquez
Gerrit Alexander Veltman
Sundareswaran Venkatraman
Svetlana Vestel
Andrew Viana Sr.
Brian Kevin Walsh
John F. Walsh IV
Collins E. Walston
Justin Dean Warden
Jacob Randall Ware
Andrew Wayne
David Christopher Weddle
Darren Eric Weiser
Amy Yancy Whited
Rohan Chandana Wijewickrama
Brian James Wilkins
Amy Nicole Williams
Nickesha Williams
Brian M. Wilson
Kyle Grady Workman
Nathan Wright
Ai-Jiuan Wu
Michael William Young
Chia Ming Yu
Shima Ziaei

THE SCHOOL OF GOVERNMENT

Est. 2001
Dean Aimee N. Wall

MASTER OF PUBLIC ADMINISTRATION

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Hogan Eastwood Medlin
Wesley Merritt
Julia Murphy
Jackson Alexander Blythe Peterson
David Schexnayder
Mariel Yukie Downes Takamura
Dai Thi Tworek
Rachel Lynn Werz
Amanda Poole Wesson

THE SCHOOL OF INFORMATION AND LIBRARY SCIENCE

Est. 1931
Dean Gary Marchionini

MASTER OF SCIENCE IN INFORMATION SCIENCE

Elizabeth Anna Allen
Amber Nichole Artis
Yunbing Bai
Yunwei Cao
Ruihan Chen
Shannon Harvey
Lilyan Elizabeth Hinson
Binhang Li
Wenchenghao Pian
Sarah F. Throm
Hangyu Wang
Ziyue Wang
Xiao Wu
Chi Xu
Yuyu Zhang

MASTER OF SCIENCE IN LIBRARY SCIENCE

Jesse Hansford Bethany
Ross Edward Herman
Rachel Suzanne Lyons
Chelsea Leann Romero
Lev Quinn Rosenberger

THE SCHOOL OF MEDICINE

Est. 1879
Dean Wesley Burks

MASTER OF CLINICAL LABORATORY SCIENCE

Amber R. Denning
Lindsay Martin Kimbrell

MASTER OF HEALTH SCIENCES

Physician Assistant Studies
Emma Jane Balek
Hannah Marie Balicki
Abigail Christine Bennett
Victoria Belle Churchill
Charlotte Rollinson Crumpton
Hannah Elizabeth Eckert
Amanda Ann Franaszek
Anna Elyse Harden
Octavia Annessia Renee Hicks
Michael Patrick Holsten
Cameron Howell
Alyssa Rose Lewis
Estienne Zohar Reich
Travis Lee Senor
Catherine Maura Smith
Julia Leigh Spor
A'livia A. Sutton

MASTER OF RADIOLOGIC SCIENCE

Tyler Matthew Belleau
Amy A. Coldiron
Terry Herzog
Kistner Yvonne Javorski
Nicholas Mazzuca
Kelly Lauren McHugh
Francis Solis Reyes III

THE SCHOOL OF NURSING

Est. 1950
Dean Valerie Howard

MASTER OF SCIENCE IN NURSING

Kelly W. Clark
Jama A. Forrest
Lorelei Vera Hamlin
Meaghan Elizabeth Kelleher
Ashley Meerbergen Kelly
Kyle Sullivan Smith Pendragon
Jessica Ann Rudolph
Amanda W. Williams

THE UNC GILLINGS SCHOOL OF GLOBAL PUBLIC HEALTH

Est. 1939
Dean Nancy Messonnier

MASTER OF HEALTHCARE ADMINISTRATION

Brooke Altieri
Amy J. Armstrong
Jonathan Barrett
James Frederick Carlson
Lauren Mae Carpenito
Amanda G. Couch
Francisco Cruz Mendez
Justine Jessica-Simone Dawes
Otiyana Sade' Dickerson
Mia Elizabeth Freeland
Richard Earl Furgeson
Erin Ashley Haines
Shyam Parshottam Kasundra
Chirag Khandelwal
Sung-Yong David Kim
Sarah A. Kokosa
Kelly Gagnon Kress
Udochukwu Jason Nkwazema
Armando Quinones-Cruz
Richard Todd Rozier Jr.
Amanda Sanchez
Jaleesa Shepard
Dayanara Valentin-Rodriguez
Jenny Kim Vo
Maria Camila Wels

MASTER OF PUBLIC HEALTH

Sandya Athigaman
Dina Avila
Sierra Danielle Bailey
Hannah Grace Barnes
Jennifer L. Beightley
Somil Bhushan
Daquan Raheem Bordeaux
Beryl Naa-Borley Bortey
Christopher Campau
Jennet Ruth Carter
Grace Catherine Chamberlin
Theresa Elizabeth Champion
Antoinette J. Charles
Maya Keana Crudup
Janel Moira Dy Cuevas
Sydney Danielle Davis
Trisha Green
Kinsley Rayanne Hagans
April Corinne Hansen
Alexis Elizabeth Hartranft
Kara-Ann Hensey
Bailee Shay Higgins
Kellen Harlee Hopp
Edward Jie Hughes
Nicole Denise Jack
Erin Marie Jamieson Day
Jayraj Venkat Jonnalagadda
Carolyn Elizabeth Keeler
Kathleen Lea Kennedy
J'von Holly Leach
Nicole E. LePetri
Camille Almeida Levi
Bryan David Lewis
Elizabeth Dempsey Lord
Annie Ly
Kelly Ann Lyons
Tarsila Rosa Campos Machado
Amy Mackay
Jessica Michele Manion
Dylan Blair Mathews
Ann Madren Meletzke
Madison Miller
Maria Mondragon
Ana Elizabeth Moscoso
Bernadette Michelle Moss
Julie R. Muñoz
Pramila Nepal
Maya Victoria Newlin
Steven James Nordstrom
Ashleigh Jenee Olin
Anni Oranjian
Grace Ellen Ourada
Disha Rohit Patel
Rosa Maria Pedro Vicente
Justin Cruspero Quimbo
Cierrea Rashonda Roach-Gerald
Grace Noble Sagers
Stephanie Lenae Schrock-Hurst
Ashka Darshan Shah
Kiera Da'shawn Sherrill
Anna Reilly Simpson
Rachelle Smith
Zakiya Carianna Smith
Cassandra Daphne Snow
Amy Herbstman Sobel
Kory Celine Tobias
Jenni Truong
Cecelia Shertz Wall
Korie Loftis Whited
Miriam Wiener
Kolby Williams
Sarah-Chelsea Harrison Wilt
Katherine Wood

MASTER OF SCIENCE IN CLINICAL RESEARCH

Kelly Marie Chamberlin

MASTER OF SCIENCE IN PUBLIC HEALTH

Epidemiology
Anna Francesca Ballou

THE SCHOOL OF SOCIAL WORK

Est. 1920
Dean Ramona Denby-Brinson

MASTER OF SOCIAL WORK

Amy Diane Schere

CANDIDATES FOR BACCALAUREATE DEGREES

DECEMBER 2023

DEGREES WITH DISTINCTION

To graduate with distinction or with highest distinction, undergraduate students must have completed at least 45 academic hours at UNC–Chapel Hill and have an overall grade point average of at least 3.5 or 3.8, respectively.

HONORS CAROLINA

Honors Carolina is an outstanding collection of courses, special events, and learning opportunities geared toward the top students at Carolina. It is the University's way of investing in exceptional undergraduate students by providing academic and non-academic challenges and opportunities, both inside and outside the classroom. Honors Carolina students receive priority registration for more than 160 Honors courses each year. These are small classes, taught by professors who encourage classroom discussion and hands-on research.

Students who wish to graduate from Carolina "with Honors" or "with Highest Honors" must complete a senior honors thesis project in their major field(s) of study. Such students need not have been members of Honors Carolina. They must, however, meet academic eligibility standards set by Honors Carolina and the individual departments, curricula, and professional schools that sponsor senior honors thesis programs. Senior honors thesis students must complete an original and substantial research, performance, or creative project under direct supervision by a faculty advisor. Upon the completion of their projects, students must pass an oral examination or other appropriate form of evaluation.

§ Indicates candidate for degree from N.C. State University.

* Indicates probable candidate for degree with distinction or highest distinction based on grade point average going into the final semester.

\+ Indicates Honors recipient.

++ Indicates Highest Honors recipient.

THE COLLEGE OF ARTS AND SCIENCES

Est. 1795
Dean James W.C. White

BACHELOR OF ARTS

African, African American, and Diaspora Studies
Thomas Dean Buchanan*
Niya Friday
Mariah Jade McCann

American Studies
Juanita Paz-Chalacha*
Alycin Kristine Ray*
Monique Fulshon Ward

Anthropology
Kristina Frances Hefferle*
Ali Masood Khan*
Juanita Paz-Chalacha*
Jordan Adriana Pugh
Levi R. Tox Williams*

Archaeology
Elizabeth Grace Black*

Art History
Anna Katherine Baechtold*

Asian Studies and Middle Eastern Studies
Seraphina Gwendolyn Ingledue
In Won Jung
Elizabeth Cung Nei Par Sunthang
Shufan Tang*
Catherine Delaney Williamson

Biology
Kayla D. Allen
Matthew Ivan Baldwin
Summer Haley Bowman*
Chloe Mackenzie Breedlove*
German Eduardo Diaz-Garcia
Sagarra Alexis Dunlap
Jordyn Francis Earl
Diante Maleek Fields
Emma Marie Fowler
Nigel Malik Goins
Annabel Claire Hinkle*
Tatum Grace Janke
Tyler James Johnson*
Sundeep Kaur*
Justin Christopher Lawrence*
Samuel James Loyack
Brenna Nicole Mehl*
Anajancy Melchor Garcia
Mohamed Moazeb
Lauren Alexis Mobley
Camilo Montoya
Oscar Meigs Needham IV
Ugochi Ihuoma Onuh
Molly Ruebusch*
Isabelle Nicole Sechrest
Wendy Karina Showalter*
Jaylin Elle Singletary
Ellen Lee Weaver

Chemistry
Maham Aman
Kaden Ryan Blalock*
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Isabella Maria Chow Kai Reyes
Ameyovi Enyonam Shalom Kpodzo
Samuel James Loyack
Ashlee Michaela Propst
Mariela Sofia Solorzano
Kay Arden Youngstrom*
Alejandro David Zavaleta

Classics
Lily Li Brown

Communication Studies
Andreea Elizabeth Alecse*
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Parker Lillian Brown*
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Isabella Chase*
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Emily Elizabeth Cowie
Isabel McRae Cox
Ambrosia Donne DeConto
Kaylee Dhamra
Logan Michael Dumke*

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John Coleman Hayes
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Zackari Hussein Abdikarim
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Cameron Riley Burhans
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Lance Emerson Whitley*
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Paige Elizabeth Baldelli*

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Kenneth Omar Feliciano Ortiz
Benjamin Rabun Ketchum*
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Hunter Neil Andresen
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Hunter Bennett*
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Riley Andrew Burns
Benjamin Gardner Burris
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Jake Tyler Padgett
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Gulsiya Kathryn Peters
Kaitlyn Rose Phillips
Savannah Elizabeth Pless
Aidan Phillip Schraff
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Ian Alexander Walniuk
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Russell Philip Warren*
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Chengting Wu
Bryan Yang
Ayden Yankow

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Emily Anne Baker*
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Taylor Beth Barnhill*+
Kedrick Semaj Bingley-Jones
Lily Li Brown
James Alan Campbell Carlson
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Logan McKenna Kelly*
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Ariana Michelle Lawrence*
Zan Jake Maley*++
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Susanna Rebecca Skaggs*
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Kayla Elizabeth Swicegood*
Monique Fulshon Ward

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Emiley Elizabeth Gurganus
Savannah Juhn Shoemake
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Joyce Ebanehita Ebhodaghe

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Laesha Aguilar
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Leslie Anne Majerus*
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Gary Ray Zimmerman II

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Jaidan Willow Pearce-Cameron
Rachel Nicole Salinas

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Lucas Alberto Virgil*
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Luke Riley Davis
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Ndobegang Nkafu Foletia
Bryn Rachel Giugno*
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Lilly Ann Williams

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Lexi Ilana Bernstein*
Adrienne Patrice Brummett*
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Avonté Dale
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Jose Martinez
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Maria de los Angeles Mendez Casique*
Joseph Nmashie
Jazmien Romaine Pender
Kala M. Philson
Riley Michele Quinlan*
Katherine Grace Redenbaugh*
Lindsey D. Rose
Lionel Santiago Vasquez

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Kambree Nicole Vincent
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Matthew Bryan Wood*
Katie Louise Wright
Isabella Grace Xavier
Yinuo Xu*
David Anthony Young

Public Policy
Anna Katherine Baechtold*
Noa Jordana Bearman*
Eric Ralph Joachim Becker
Michelle Aurora Nimnoom Breit*
Ashlyn Ann Clark*
Jayla Brooke Cobbs
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Olivia Christian Dagenhart*
Elliot Cole Gualano
Shri Kolanukuduru
Grace Olivia Lena*
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Sofia Cole Rhodes
Gibson Anderson Weber*

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Holly Tatum Lockhead
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Romance Languages
Alyssa Lauren Braddy*
Lola Bleu Hooper*
Cora Hope Lubsen*
Lacey Elizabeth Ragan
Olivia Esther Soto-Allison*
Laura Graciela Zapata

Sociology
Shaimaa Abdo Mossaid Ali
C'Asia Nykira Allen*+
Paige Elizabeth Baldelli*
Stephanie Marie Bartlett
Jonas Madison Brock
Madelyn Avery Eaton
Brooke Benari Harris
Maxine Edde U'Net Hicklin
Emmaus William Holder*++
Imani Monica Russell*
Olivia Reagan Tordella*

Studio Art
Gabrielle R. Bartshe*
Dana Rose Bumbalo*
Magen Amanda Elliott

Women's and Gender Studies
Sarah Francis Stewart
Jada Amoy Carol Weyand*

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Nicole Blevins
Madison Brooke Speyer

BACHELOR OF MUSIC

Blayne Owens
Nijah Cheyenne Poteat
William Smithdeal Woodruff

BACHELOR OF SCIENCE

Biology
Sinead Esther Beausang*
Grayson Markert Coleman +
Alena Rose Craddock
Emma Elizabeth Craver
Hailey Dodson*
Stephen Andrew Ehrenzeller*
Annika Gregg*
Analise N. Griffiths*
Kristina Frances Hefferle*
Lizette Herrschaft*
Grace Anne Hodges*
Hamza Jahangir
Vandanaa Jayaprakash*++
Amy Jiang*
John Christopher Kees*++
Grace Anne Kisting*
Justin Yu-Wei Lee
Karen Jian Li*+
Madeline Violet Loops*+
Hannah Elizabeth Maniattu*
Jaden Joseph Moore
Janet K. Nguyen
Jordyn Elizabeth Niewold*
Erik David Norloff*+
Julia Riley Packard*
Sagar Pandit
Markus Donté Parson
Aashita Singh Rajput*
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Gretchen Marie Reese*
Taner Allen Richards*
Sophie Brynn Robinson
Riya Nitesh Shah*++
Molly Shaughnessy*
Matthew Wilson Shaw
John Armstrong Shriver*
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George Stephen Stephenson
Kyler Jacob Todd*
Yarema Touprong
Allison Wei Hui Tu
Soorya None Vasan*
David Vashakidze
Julian K. Viljoen
Mark Joseph Voller
Meredith Grace Wall*
Jennifer Grace Walsh
Jalen Tyrel Williams

Biomedical and Health Sciences Engineering
Amit Irshaad Busgith
Albert Minseok Choi*
Dain Choi*
Melanie Grace Cohen*
Nicole Anne Franchi §
Tyler Lee §*
Alexandra Vivian Middleton §*
Emilie Marie Norwood §*
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Christopher Martin Petersen §
Nereida Garza Ramos §*
Christopher Sharkey §*
Nicholas David Tully*
Claire Larrabee Wiebking §*

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Elias Arroyo
Charlotte Elizabeth Ball
Zixuan Chen*
Angelina Mi-Thuy Ha*
Elsa Zoe Huebsch*++
Spencer T. Hurley*
Alexander Philip Mork
Spencer VonAnderfer Thompson
Michael Ngoc-Tri Tran

Computer Science
Mohamed Abdulal
Maya Agnihotri
Juniper Amaranto
Thomas Langston Barry*
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Arogya Dhakal
Hoang Son Do*
Andrea Sujey Dunn Beltran*
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Rawad Talaat Nasrallah
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Kushagra Sethi
Junyi Song*
Yusri Souissi
Haoyu Tang*
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William Vaught
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Donggeon Woo*
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Rachel Elizabeth Lopez
Hannah E. Obenaus*
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Quintin Camille Schraff
Sophia Mattia Sload
Aisha Saboorah Wali Thompson
Avery Michaela West*++

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Huixue Leng
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Ahmad Wael Al-Qaq*
Patrick Douglas DeLoach*
Chloe Du*
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Samuel Hankley*
Katherine Ann Kesselman*
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Gaushik Mouleeswaran*
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Chiebuka Justin Onuoha*
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Carmen Rafik Hanna
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Georgia Marie Sherrill*
Gabriella Josephine Smith*
Abigail Marie Smits*
Aidan Richmond Stubbs*
Sydnie Haven Thompson
Kaelyn Rae Wall
Hailey Marie Whitby

Statistics and Analytics
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Tanay Bali*
Albert Bright II*
Zihan Chu*
Austin Michael Cicale*
Celia Maria Collias
Liam Cameron Cune
Adam E. Dameron*
Tara Ghorpadkar
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Arvind Aditya Madan
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Human Development and Family Studies
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Anthony Lee Cerniglia*
Alyssa Raine Champney
Belamy N. Counou*
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Est. 1931
Dean Gary Marchionini

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Dean Raul Reis

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Charlotte Michelle Geier*++
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Grace Annie Gao
Sarah Elizabeth Montross*

Nutrition
Albert Pan

CANDIDATES COMMISSIONED IN THE ARMED FORCES

December 2023

UNITED STATES NAVAL ENSIGN

William Wheeler Kendrick-Holmes

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GRADUATE DEGREES

AUGUST 2023

Graduates' names are followed by their area of major study, dissertation or project title, and the name of their doctoral advisor.

THE GRADUATE SCHOOL

Est. 1903
Dean Elizabeth Mayer-Davis

DOCTOR OF PHILOSOPHY

Lily Elizabeth Adams, *Microbiology and Immunology,* Investigating the Factors that Influence Pan-Betacoronavirus Infection and Immune Protection. Professors Ralph Baric and Mark Heise.

Selin Altinok, *Pharmacology,* Domain-Specific Changes in CHIP Function Explain Distinct Clinical Features in SCA48 Patients. Professor Jonathan Schisler.

Gabriella M. Alvarez, *Psychology,* From Inequality to Inflammation: Exploring Internal and External Contributions to Affective Processing. Professor Keely Muscatell.

Marissa C. Ashner, *Biostatistics,* Evaluating Various Estimating Equation Approaches to Handle Right-Censored Covariates in Regression. Professor Tanya Garcia.

Sarah Barr, *Microbiology and Immunology,* Investigating Characteristics of Bacterial Two-Component Regulatory Systems. Professor Robert Bourret.

Colleen Betti, *Anthropology,* "Go Ahead and Erect the Buildings Themselves"; An Archaeological Study of Three Black Schools in Gloucester County, Virginia. Professor Anna Agbe-Davies.

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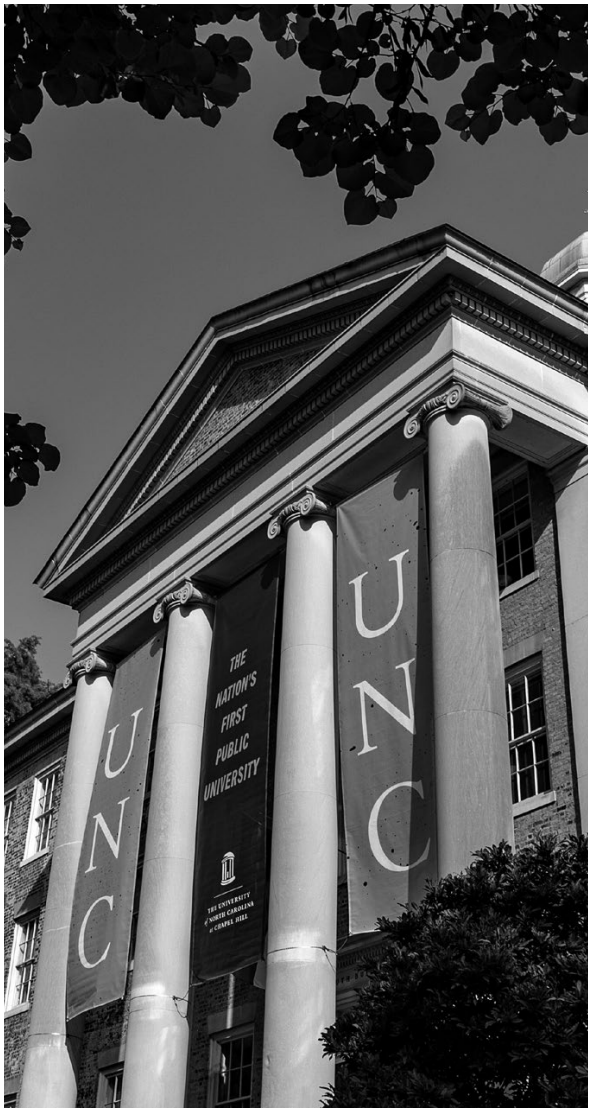

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Allison M. Mullins
Tyna Nguyen
Stuartt Kathleen Nusbaum
Lauren Grace O'Callaghan*
Sela Judy Omuchei*
Melody Ruth Outlaw*
Nathaniel M. Patron*
Ashlyn Cooper Pierce*
Hannah Marie Potter*
Catherine G. Preston*
Noah Ethan Privette*
Summer Qadoura*
Emily Reichard*
Nancy Katherine Robinson*
Noelle Elisabeth Ruehle
Nancy Ruiz Bonilla
Grace Elisabeth Russell*++
William John Russell*
Jada Kennedy Scarboro*
Sindhu Shamasunder*++
Reah Eve Siegel*
Kira E. Small*
Kayla Evana Smith
Frances Muriel Smock*
Kirsten St. Louis*
Parker Stantz*
Ajhanae Latrianna Sutton-Richardson
Alexandria Marie Thompson*
Aleksandra To*
Jessie Torres
Mikhayla Lynn Turner*
Eric William Villeneuve*
Ashley Caroline Walsh*
Sarah Elizabeth Willingham*
Madeleine Wood*
Kayla Lauren Woodley
June Grace Yang*
Chloe Yarbrough*
Keeley Ziermann*

§ Indicates graduate from N.C. State University
* Indicates degree with distinction or highest distinction
+ Indicates Honors recipients
++ Indicates Highest Honors recipients

THE UNC GILLINGS SCHOOL OF GLOBAL PUBLIC HEALTH

Est. 1939
Dean Nancy Messonnier

BACHELOR OF SCIENCE IN PUBLIC HEALTH

Biostatistics
Osamah Mahmoud Atieh*
Gargi Mehul Dixit*
Elisa Ji-Hyun Ma*+

Environmental Health Sciences
Mercy Linden Neal*+

Health Policy and Management
Leila Maryann Fathi++
Yuliza Pena Hernandez
Abigail Elizabeth Shuman*++

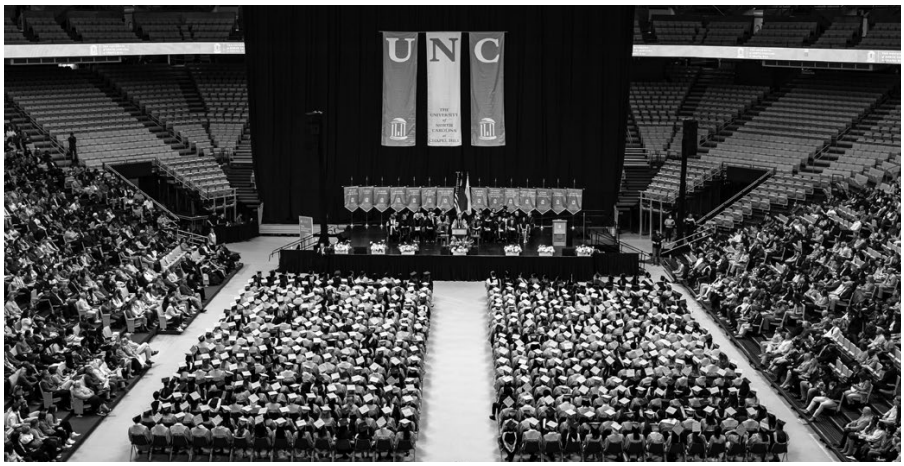
Nutrition
Ellen Joy Gooch
Tiana Olivia Jacobs
Aditya Pankaj Shetye++

GRADUATES COMMISSIONED IN THE ARMED FORCES

August 2023

UNITED STATES ARMY SECOND LIEUTENANT

Aiden Michael Watson



ACADEMIC DRESS

The following information, based in part on An Academic Costume Code and Ceremony Guide (published by the American Council on Education), may be helpful in identifying academic attire worn during UNC's Commencement exercises.

DEGREE CANDIDATES' REGALIA

The University's bachelor's gown, designed by Alexander Julian, is both Carolina blue and truly green, as in sustainably made. The fabric for the True Blue gown is made from 100 percent post-consumer recycled plastic bottles (23 bottles for each gown) and is manufactured at mills in the Carolinas. The information about the gown's sustainability is suitably printed directly on the cloth, without the use of an extra label. In addition to being dyed a custom Carolina blue color, the True Blue gowns also have a streamlined fit, with white piping along the yoke and two white panels in front. The tassels are blue and white, topped with a silver-colored Old Well medallion. An optional accessory is an embroidered white stole that the graduate may give to a parent in gratitude after the Commencement ceremony.

The untrimmed, black master's gown has a hood and an oblong sleeve, open at the wrist, that hangs nearly to the ground; the back part of its oblong shape is square cut and the arc in the front is cut away. The hooded doctoral gown features three bars across each sleeve. In 1999, the Faculty Council authorized a special doctoral gown for Carolina graduates. It is Carolina blue, with facings and crossbars of dark blue outlined in white piping. The facings bear the shield of the University supported by the torches of learning.

The hoods of master's and doctoral degree candidates vary in color according to the field of study (see list on the right).

FACULTY REGALIA

Faculty wear the regalia of the institution that conferred their highest degree. The doctoral gowns are usually faced with black velvet, although the color of the velvet may vary according to the field of study. Hoods, which differ in length according to the level of the degree held, are lined with official colors of the university or college that conferred the degree, usually with one color forming a chevron pattern over the other. Some colors you will see on faculty and administrators' robes are, for example, the crimson of Harvard, the maroon of Chicago, the orange and black of Princeton, the dark blue of Yale, and the light blue and white of North Carolina.

Like the hoods of master's and doctoral degree candidates, faculty hoods are edged and bound with velvet in the color appropriate to the field of study. The colors in the hoods and gowns of faculty and administrators represent the fields in which degrees were taken.

FIELDS OF STUDY

Apricot: Nursing

Brown: Fine Arts

Citron: Social Work

Crimson: Journalism

Dark Blue: Philosophy

Golden Yellow: Science

Green: Medicine

Lemon Yellow: Library Science

Light Blue: Education

Lilac: Dentistry

Olive Green: Pharmacy

Orange: Engineering

Peacock Blue: Public Administration

Pink: Music

Purple: Law

Sage Green: Physical Education

Salmon Pink: Public Health

Scarlet: Theology

Yellow Brown: Commerce, Business, Accountancy

White: Arts, Letters, Humanities

CREDITS

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THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL